Step	Procedure
210	**Acquire intensity vs. position data** during an optical-path length scan of the interferometer
220	Transform into the frequency domain and use a least-squares fit to phase vs. wavenumber to generate experimental **coherence and phase data.**
230	**Approximate the phase gap** with a low-noise substitute, generated e.g. by field averaging.
240	**Connect the approximate phase gap** to remove $2\text{-}\pi$ wrapping between pixels
250	**Calculate a field-corrected phase** free of pixel-to-pixel fringe order errors, by combining phase and coherence information
260	**Calculate an absolute phase** incorporating all known phase and dispersion offsets.
270	**Calculate a final high-resolution height profile** from the absolute phase.

Figure 1   200

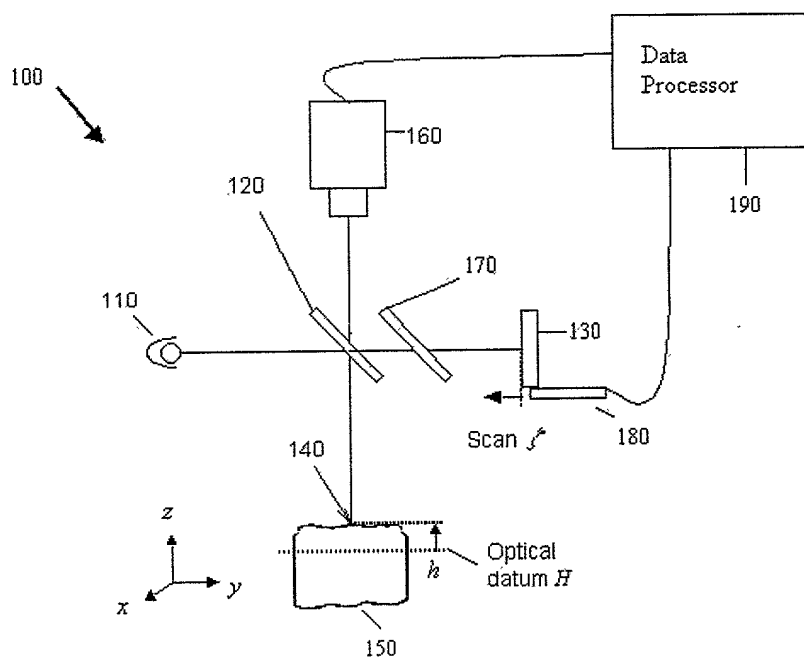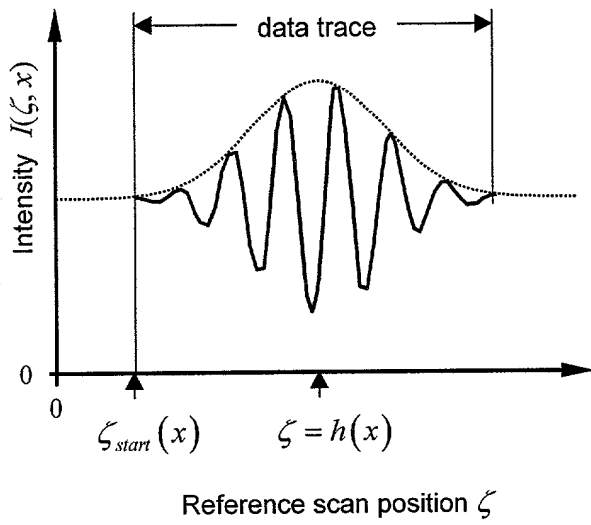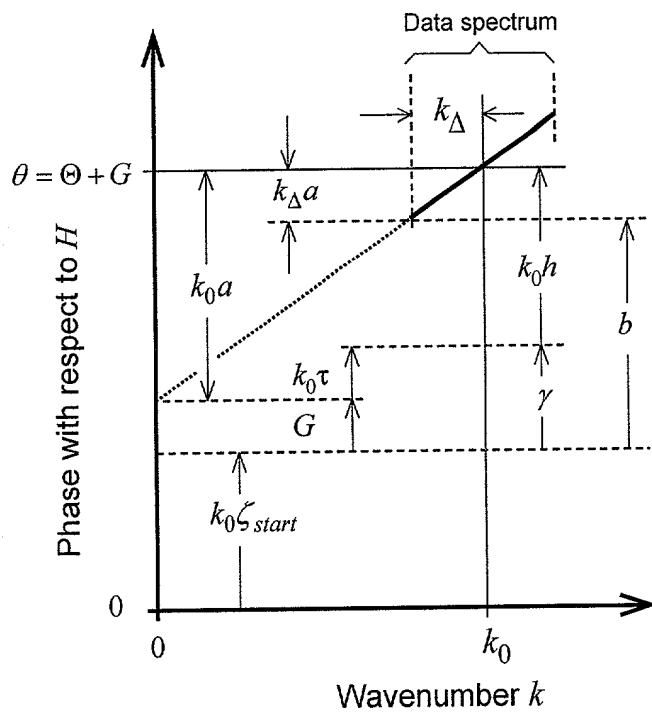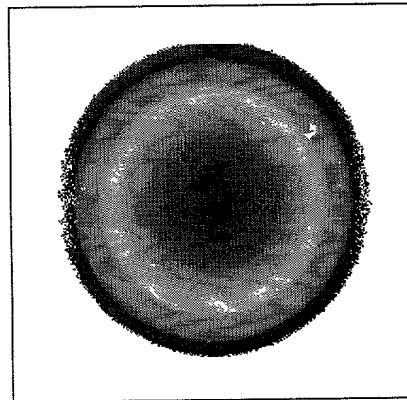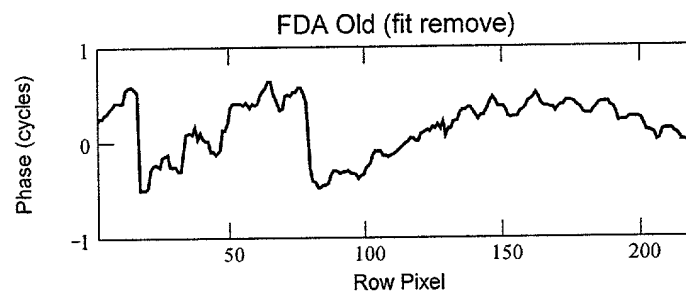| Step		Symbol	Procedure name	Ref.
210	a	$I_{ex}\left(\zeta,x\right)$	Experimental intensity vs. scan position data	Figure 4
220	a	$\phi_{ex}\left(k,x\right)$	Experimental phase vs. wavenumber data	Eq. (3)
	b	$a_{ex}\left(k,x\right)$	Phase slope (by linear fit)	Eq. (4)
	c	$b''_{ex}\left(k,x\right)$	Phase intercept (by linear fit)	Eq. (5)
	d	$\Theta_{ex}\left(x\right)$	Phase-equivalent coherence profile	Eq. (6)
	e	$\theta''_{ex}\left(x\right)$	Wrapped experimental phase profile at k_0	Eq. (7)
230	a	$\Theta_{sm}\left(x\right)$	Smoothed coherence profile	Eq. (32)
	b	$\Gamma''\left(x\right)$	Approximate phase gap	Eq. (33)
	c	$\left\langle\Gamma'\right\rangle$	Global average phase gap	Eq. (27)
	d	$\Gamma''_{sm}\left(x\right)$	Filtered phase gap	Eq. (29)
	e	$V\left(x\right)$	Phase gap variance	Eq. (35)
	f	$V_{sm}\left(x\right)$	Smoothed phase gap variance	Eq. (36)
	g	$\Gamma''_{blend}\left(x\right)$	Wrapped blended phase gap	Eq. (37)
240	a	$\Gamma'\left(x\right)$	Connected phase gap	Eq. (18)
	b	$\Gamma'_{fit}\left(x\right)$	Surface fit to the connected phase gap	Eq. (34)
	c	$\Gamma'_{blend}\left(x\right)$	Blended connected phase gap	Eq. (38)
250	a	$M\left(x\right)$	Field dependence of fringe order	Eq. (20)
	b	$\theta'_{ex}\left(x\right)$	Field-corrected phase profile	Eq. (21)
260	a	M_0	Absolute fringe order	Eq (24)
	b	$\theta_{ex}\left(x\right)$	Absolute phase profile	Eq. (25)
270	a	$h_{ex}\left(x\right)$	Absolute height profile	Eq. (26)

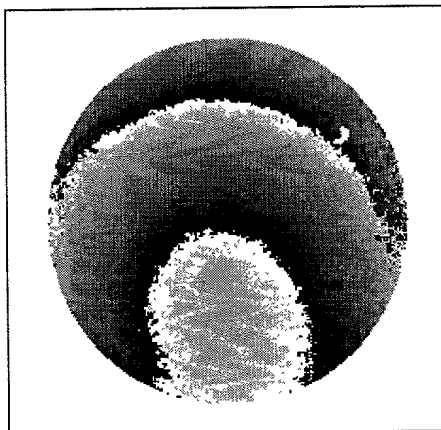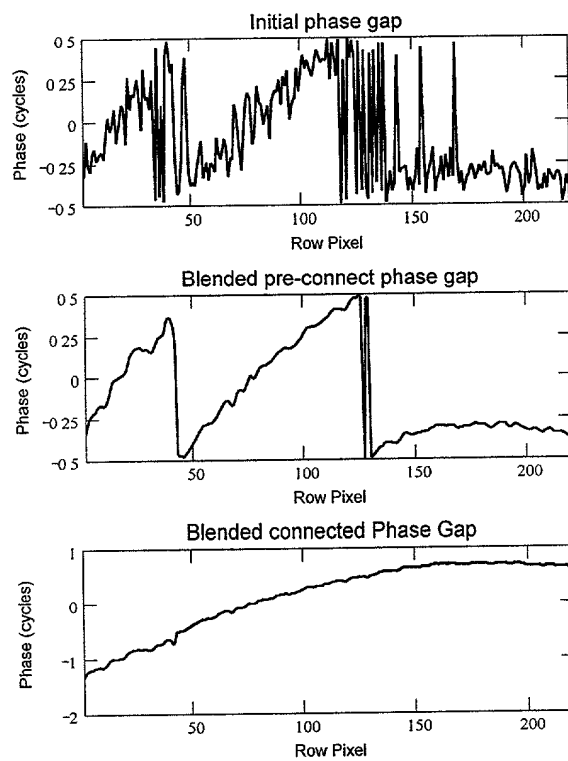200

Figure 2

2

Figure 3

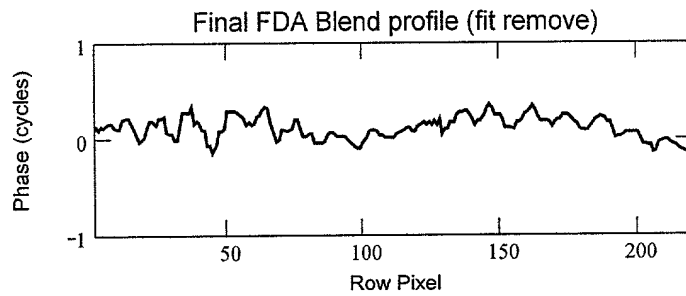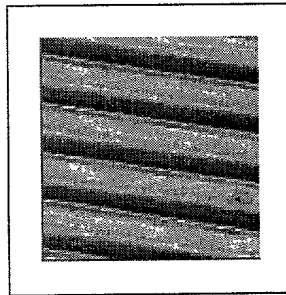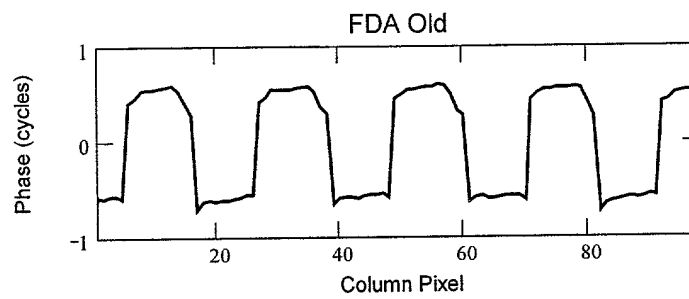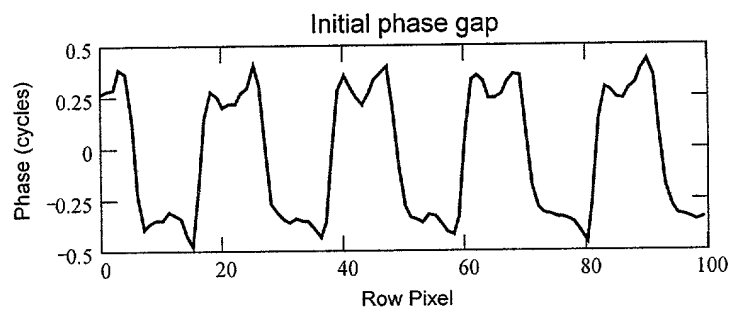Figure 4

Figure 5

Figure 6

Figure 7

Figure 8

Figure 9

Figure 10

Figure 11

Figure 12

Figure 13

Figure 14

Figure 15